



MASTER - LED HID HPL



MAS LED HPL M 4Klm 24W 840 E27 FR G

Philips Master LED HPL lamps offer an easy and short payback LED solution to replace High Intensity Discharge (HID) lamps. The products bring the energy efficiency and long lifetime benefits of LED to HID HPL replacement and provide instant saving and low initial investment. With the right lamp size and light distribution, you can easily retrofit Master LED HPL urban lamps and bypass the existing ballast while enhancing the lighting quality.

Warnings and Safety

- Please refer to the installation guide or consult a Philips Lighting representative for wiring diagram and instructions.

Product data

| General Information | | LLMF At End Of Nominal Lifetime (Nom) | |
|------------------------------------|--------------------|--|-------------|
| Cap-Base | E27 | | 70 % |
| Nominal lifetime | 50,000 hour(s) | Photobiological safety according to EN 62471 | RG0 |
| Switching Cycle | 50,000 | Operating and Electrical | |
| Lighting Technology | LED | Line Frequency | 50 to 60 Hz |
| Flux measurement reference | Sphere | Input Frequency | 50 to 60 Hz |
| Light Technical | | Power Consumption | 24 W |
| Color Code | 840 [CCT of 4000K] | Lamp Current (Nom) | 110 mA |
| Beam Angle (Nom) | 300 degree(s) | Starting Time (Nom) | 0.5 s |
| Luminous Flux | 4,000 lm | Warm-up time to 60% light | 45 s |
| Color Designation | Cool White (CW) | Power Factor (Fraction) | 0.9 |
| Correlated Color Temperature (Nom) | 4000 K | Voltage (Nom) | 220-240 V |
| Luminous Efficacy (rated) (Nom) | 166 lm/W | Ballast Compatibility | Mains |
| Color Consistency | <6 | Inrush current at mains | 23.2 |
| Color rendering index (CRI) | 80 | Max. lamp no. on MCB B type 10A - Mains | 8 |

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| | |
|--|----|
| Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor. | - |
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor. | - |
| Max. lamp no. on MCB B type 16A – Mains | 13 |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | - |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor. | - |

Temperature

| | |
|----------------------|-------|
| T-Case Maximum (Nom) | 55 °C |
|----------------------|-------|

Controls and Dimming

| | |
|----------|----|
| Dimmable | No |
|----------|----|

Mechanical and Housing

| | |
|--------------------|--------------------|
| Bulb Finish | Frosted |
| Bulb Material | Glass |
| Bulb Shape | Tube, single-ended |
| Net Weight (Piece) | 0.190 kg |

Approval and Application

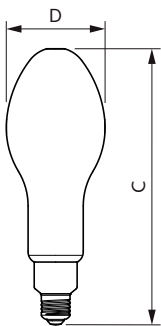
| | |
|-------------------------|---|
| Energy Efficiency Class | C |
|-------------------------|---|

| | |
|---|---------------|
| Energy Consumption kWh/1000 h | 24 kWh |
| EPREL Registration Number | 1363718 |
| CE mark | Yes |
| EU RoHS compliant | Yes |
| Flickering value (PstLM) - Flickering value as per EN 61000-3-3 | 1 |
| Stroboscopic effect visibility measure (SVM) | 1.6 |
| Ambient temperature range | -30 to +45 °C |

Product Data

| | |
|---------------------------------|-------------------------------------|
| Order product name | MAS LED HPL M 4Klm 24W 840 E27 FR G |
| Full product name | MAS LED HPL M 4Klm 24W 840 E27 FR G |
| Full product code | 871951445199500 |
| Order code | 929003531002 |
| Material Nr. (12NC) | 929003531002 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8719514451995 |
| Numerator - Packs per outer box | 6 |
| EAN/UPC - Case | 8719514452008 |

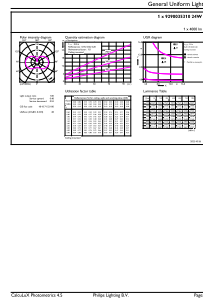
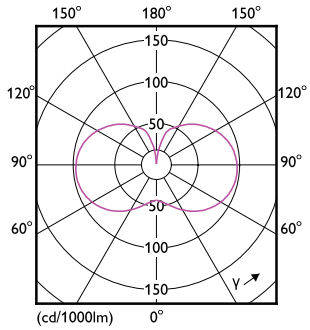
Dimensional drawing



| Product | D | C |
|-------------------------------------|-------|--------|
| MAS LED HPL M 4Klm 24W 840 E27 FR G | 91 mm | 249 mm |

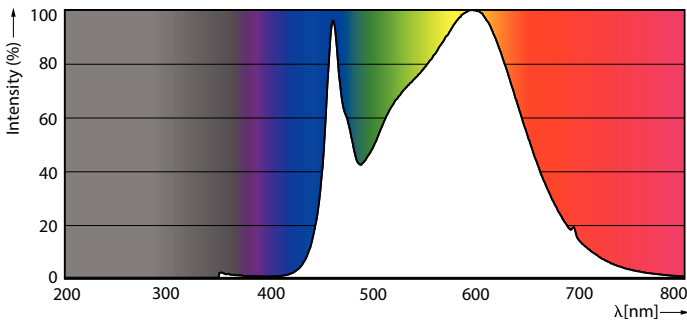
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Photometric data



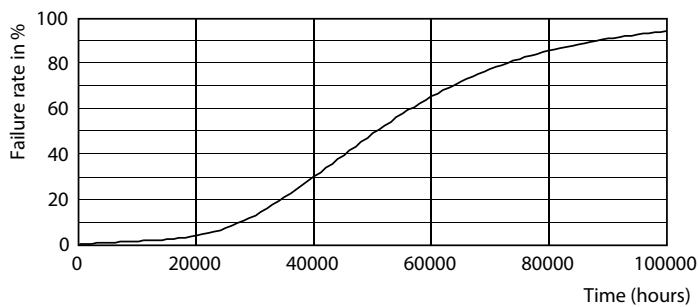
Light Distribution Diagram - MAS LED HPL M 4Klm 24W 840 E27 FR G

General uniform lighting - MAS LED HPL M 4Klm 24W 840 E27 FR G

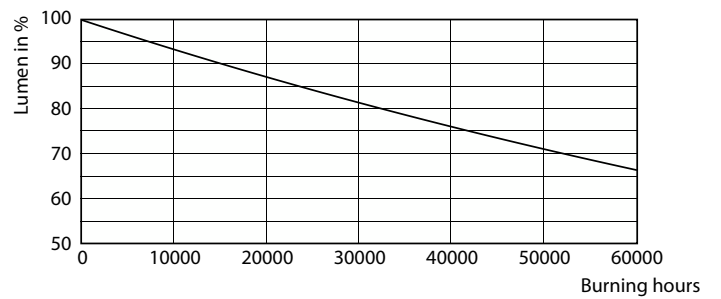


Spectral Power Distribution Colour - MAS LED HPL M 4Klm 24W 840 E27 FR G

Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - MAS LED HPL M 4Klm 24W 840 E27 FR G

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